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February 9, 2006

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Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Art Unit 1722
Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 10/728,872; Filed: December 8, 2003
For: **Nozzle Tip and Seal**
Inventor: George Olaru
Our Ref: 2107.1760001

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Second Supplemental Information Disclosure Statement;
2. Form PTO/SB/08a (8 pages) and Form PTO/SB/08b (2 pages) listing cited documents;
3. Copies of cited documents: FP1-FP49 and NPL1-NPL18;
4. Credit Card Payment Form (PTO-2038) for \$180.00 to cover IDS fee; and
5. One (1) return postcard.

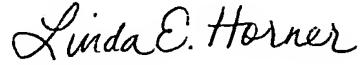
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
February 9, 2006
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Linda E. Horner
Attorney for Applicants
Registration No. 39,588

LAH/PAS/shr
Enclosures

SKGF_494124.1

TPO
APC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
George Olaru
Appl. No.: 10/728,872
Filed: December 8, 2003
For: **Nozzle Tip and Seal**

Confirmation No.: 1168
Art Unit: 1722
Examiner: Timothy W. Heitbrink
Atty. Docket: 2107.1760001

Second Supplemental Information Disclosure Statement



Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may

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not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicant has checked the appropriate boxes below.

- 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date

of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date

of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee.

Enclosed find our PTO-2038 Credit Card Payment Form in the amount of

\$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

- a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

- 6. An English language translation of non-English language document FP9 and English language abstracts of the non-English language documents FP6-FP8, FP11, FP14, FP17, FP19, and FP21-FP38 are enclosed in accordance with 37 C.F.R. § 1.98(a)(3).
- 7. Copies of documents FP1-FP49 and NPL1-NPL18 are submitted. However, in accordance with 37 C.F.R. § 1.98(a)(2), no copies of U.S. patents and patent application publications cited on the attached IDS Forms are submitted.
- 8. Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
- 9. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). _____ in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Linda E. Horner

Linda E. Horner
Attorney for Applicant
Registration No. 39,588

Date: February 9, 2006

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Substitute for form 1449/PTO				<i>Complete if Known</i>	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/728,872
				Filing Date	December 8, 2003
				First Named Inventor	George Olaru
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
Sheet	1	of	8	Attorney Docket Number	2107.1760001

O I P E
FEB 09 2006
PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	US1	2,865,050	12/23/1958	Strauss	
	US2	3,488,810	01/13/1970	Gellert	
	US3	3,677,682	07/18/1972	Putlowski	
	US4	3,716,318	02/13/1973	Erik <i>et al.</i>	
	USS	3,741,704	06/26/1973	Beasley	
	US6	3,952,927	04/27/1976	Schaumburg <i>et al.</i>	
	US7	4,004,871	01/25/1977	Hardy	
	US8	4,010,903	03/08/1977	Sakuri <i>et al.</i>	
	US9	4,013,393	03/22/1977	Gellert	
	US10	4,043,740	08/23/1977	Gellert	
	US11	4,053,271	10/11/1977	Gellert	
	US12	4,212,627	07/15/1980	Gellert	
	US13	4,306,852	12/22/1981	Mateev <i>et al.</i>	
	US14	4,312,630	01/26/1982	Travaglini	
	US15	4,318,686	03/09/1982	Morgan	
	US16	4,330,258	05/18/1982	Gellert	
	US17	4,368,028	01/11/1983	Grish <i>et al.</i>	
	US18	4,412,807	11/01/1983	York	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
	FP1	CA 2,082,700	05/13/1994	Gellert	
	FP2	CA 2,190,569	05/18/1998	Gellert <i>et al.</i>	
	FP3	CA 2,261,367	08/08/2000	Gellert <i>et al.</i>	
	FP4	CA 2,358,148	03/04/2003	Olaru	
	FP5	CA 2,473,920	08/28/2003	Babin <i>et al.</i>	
	FP6	DE 032 45 571 A1	06/20/1984	Manner <i>et al.</i>	
	FP7	DE 100 37 739 A1	02/21/2002	Hilpp <i>et al.</i>	
	FP8	DE 196 08 676	01/30/1997	Schroder	
	FP9	DE 296 02 484	05/09/1996	Manner	X

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO				<i>Complete if Known</i>	
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/728,872
				Filing Date	December 8, 2003
				First Named Inventor	George Olaru
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
Sheet	2	of	8	Attorney Docket Number	2107.1760001

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
US19		4,450,999	05/29/1984	Gellert	
US20		4,517,453	05/14/1985	Tsutsumi	
US21		4,652,230	03/24/1987	Osuna-Diaz	
US22		4,768,283	09/06/1988	Gellert	
US23		4,768,945	09/06/1988	Schmidt <i>et al.</i>	
US24		4,771,164	09/13/1988	Gellert	
US25		4,781,572	11/01/1988	Boring	
US26		4,787,836	11/29/1989	Osuna-Diaz <i>et al.</i>	
US27		4,832,593	05/23/1989	Brown	
US28		4,875,848	10/24/1989	Gellert	
US29		4,902,218	02/20/1990	Leonard <i>et al.</i>	
US30		4,911,636	03/27/1990	Gellert	
US31		4,925,384	05/15/1990	Manner	
US32		4,945,630	08/07/1990	Gellert	
US33		4,950,154	08/21/1990	Moberg	
US34		4,954,072	09/04/1990	Zimmerman	
US35		4,981,431	01/01/1991	Schmidt	
US36		5,015,170	05/14/1991	Gellert	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
FP10		EP 0 590 677 A1	04/06/1994	Schmidt	
FP11		EP 0 638 407 A1	02/15/1995	Krummenacher	
FP12		EP 0 743 158 A1	11/20/1996	Gellert	
FP13		EP 0 750 975 A1	01/02/1997	Bauer	
FP14		EP 0 835 176 B1	04/15/1998	Stern	
FP15		EP 0 873 841 A2	10/28/1998	Gellert	
FP16		EP 0 920 969 A1	06/09/1999	Helldin	
FP17		EP 0 962 296 A2	12/08/1999	Guenther	
FP18		EP 1 188 537 A2	03/20/2002	Enrietti	

Examiner Signature	Date Considered
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Sheet	3	of	8	Attorney Docket Number	2107.1760001

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		Number-Kind Code ² (If Known)			
	US37	5,028,227	07/02/1991	Gellert <i>et al.</i>	
	US38	5,030,084	07/09/1991	Gellert <i>et al.</i>	
	US39	5,053,271	10/01/1991	Mori <i>et al.</i>	
	US40	5,067,893	11/26/1991	Osuna-Diaz	
	US41	5,135,377	08/04/1992	Gellert	
	US42	5,139,724	08/18/1992	Hofstetter <i>et al.</i>	
	US43	5,141,696	08/25/1992	Osuna-Diaz	
	US44	5,208,228	05/04/1993	Ok <i>et al.</i>	
	US45	5,238,378	08/04/1993	Gellert	
	US46	5,254,305	10/19/1993	Fernandez <i>et al.</i>	
	US47	5,268,184	12/07/1993	Gellert	
	US48	5,269,677	12/14/1993	Gauler	
	US49	5,324,191	05/28/1994	Schmidt	
	US50	5,334,008	08/02/1994	Gellert	
	US51	5,360,333	11/01/1994	Schmidt	
	US52	5,374,182	12/20/1994	Gessner	
	US53	5,443,381	08/22/1995	Gellert	
	US54	5,474,439	12/12/1995	McGrevey	

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	FP19	FR 2,537,497	06/15/1984	Manner	
	FP20	GB 1 540 698	02/14/1979	Gellert	
	FP21	JP 05-177664	07/20/1993	Yoshinobu <i>et al.</i>	
	FP22	JP 05-261770	10/12/1992	Suzuki	
	FP23	JP 05-309695	11/22/1993	Yumi <i>et al.</i>	
	FP24	JP 06-143358	05/24/1994	Kunio	
	FP25	JP 07-148786	06/13/1995	Yoshihiro	
	FP26	JP 08-090598	04/09/1996	Hidesuke <i>et al.</i>	
	FP27	JP 09-123222	05/13/1997	Kazuyoshi	

Examiner Signature	Date Considered
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				Application Number	10/728,872
				Filing Date	December 8, 2003
				First Named Inventor	George Olaru
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Sheet	4	of	8	Attorney Docket Number	2107.1760001

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	US55	5,501,594	03/26/1996	Glozer <i>et al.</i>	
	US56	5,505,613	04/09/1996	Krummenacher	
	US57	5,518,393	05/21/1996	Gessner	
	US58	5,569,475	10/29/1996	Adas <i>et al.</i>	
	US59	5,652,003	07/29/1997	Gellert	
	US60	5,658,604	08/19/1997	Gellert <i>et al.</i>	
	US61	5,674,439	10/07/1997	Hume <i>et al.</i>	
	US62	5,686,122	11/11/1997	Huntington <i>et al.</i>	
	US63	5,695,793	12/09/1997	Bauer	
	US64	5,700,499	12/23/1997	Bauer	
	US65	5,707,667	01/19/1998	Galt <i>et al.</i>	
	US66	5,736,171	04/07/1998	McGrevey	
	US67	5,804,228	09/08/1998	Kofsman <i>et al.</i>	
	US68	5,811,140	09/22/1998	Manner	
	US69	5,820,899	10/13/1998	Gellert <i>et al.</i>	
	US70	5,834,041	11/10/1998	Sekine <i>et al.</i>	
	US71	5,845,853	12/08/1998	Frideman	
	US72	5,849,343	12/15/1998	Gellert <i>et al.</i>	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
	FP28	JP 10-264222	10/06/1998	Giichi <i>et al.</i>	T ⁶
	FP29	JP 10-296798	11/10/1998	Hitoshi <i>et al.</i>	
	FP30	JP 11-254488	09/21/1999	Kunio	
	FP31	JP 2002-273768	09/25/2002	Yoshinobu <i>et al.</i>	
	FP32	JP 2002-307492	10/23/2002	Yoshinobu <i>et al.</i>	
	FP33	JP 2003-071873	03/12/2003	Yoshihiro	
	FP34	JP 2003-11173	01/15/2003	Yoshitaka <i>et al.</i>	
	FP35	JP 2003-11174	01/15/2003	Yoshitaka <i>et al.</i>	
	FP36	JP 2003-11176	01/15/2003	Fujio <i>et al.</i>	

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SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/728,872
				Filing Date	December 8, 2003
				First Named Inventor	George Olaru
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
Sheet	5	of	8	Attorney Docket Number	2107.1760001

U.S. PATENT DOCUMENTS					
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		Number-Kind Code ² (if known)			
	US73	5,871,785	02/16/1999	Van Boekel	
	US74	5,894,025	04/13/1999	Lee <i>et al.</i>	
	US75	5,895,669	04/20/1999	Seres, Jr. <i>et al.</i>	
	US76	5,925,386	07/20/1999	Moberg	
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	US78	5,980,234	11/09/1999	Harley	
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	US85	6,030,202	02/29/2000	Gellert <i>et al.</i>	
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	US87	6,050,806	04/18/2000	Ko	
	US88	6,089,468	07/18/2000	Bouti	

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	FP37	WO 84/00922	03/15/1984	Shozo	
	FP38	WO 97/02129	01/23/1997	Stern	
	FP39	WO 00/48814	08/24/2000	Gellert <i>et al.</i>	
	FP40	WO 01/28750 A1	04/26/2001	Babin <i>et al.</i>	
	FP41	WO 01/78961 A1	10/25/2001	Babin <i>et al.</i>	
	FP42	WO 02/40245 A1	05/23/2002	Ciccone	
	FP43	WO 03/004243 A1	01/16/2003	Niewels	
	FP44	WO 03/028973 A1	04/10/2003	Babin <i>et al.</i>	
	FP45	WO 03/028974 A1	04/10/2003	Olaru	

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				Filing Date	December 8, 2003
				First Named Inventor	George Olaru
				Art Unit	1722
				Examiner Name	Timothy W. Heitbrink
Sheet	6	of	8	Attorney Docket Number	2107.1760001

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		Number-Kind Code ² (if known)	MM-DD-YYYY		
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	US90	6,135,757	10/24/2000	Jenko	
	US91	6,143,358	11/07/2000	Singh <i>et al.</i>	
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	FP47	WO 03/086734 A1	10/23/2003	Gellert <i>et al.</i>	
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		First Named Inventor	George Olaru
		Art Unit	1722
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	US135				
	US136				
	US137				
	US138				
	US139				
	US140				
	US141				
	US142				

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Sheet 1 of 2

Attorney Docket Number 2107.1760001

NON PATENT LITERATURE DOCUMENTS

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	NPL1	Daniel Frenkler and Henry K. Zawistowski - RAPRA Technology Ltd., "Hot Runners in Injection Moulds," (2001).	
	NPL2	Ewikon, Hotrunner Systems for Large Parts, pp. 2-11 (May 2000).	
	NPL3	Ewikon, Hotrunner Systems for the Packaging and Medical Industry, pp. 2-7 (June 2001).	
	NPL4	Ewikon, HPS III Single Tips, 230 V Externally Heated, "HPS III-SE High Performance Single Tips, 230 V With Tip Sealing Technology," pp. 2-9 (March 2002).	
	NPL5	Ewikon, HPS IIII-VT Nozzles, 230 V Externally Heated, "For Multi-Cavity Applications and Close Cavity Spacing," pp. 2-7 (October 2001).	
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	NPL7	Ewikon, Instruction Manual for Ewikon Hotrunner Systems (date unknown).	
	NPL8	Ewikon, Product Guide, "Internally Heated Hotrunner Systems," pp. 2-7 (October 2000).	
	NPL9	H.P. Manner, "NadelverschluBdusen fur kurze Zykluszeit," <i>Kunststoffe</i> 85(2):166-168 (1995).	
	NPL10	Husky Injection Molding Systems, S.A., 750 Series.	

SKGF_485336.1

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	NPL11	Hydraulic Injection Molding Machinery, Cincinnati Milacron pamphlet (1984).	
	NPL12	J.D. Robinson "Gating and Cooling Techniques for Polypropylene," Plastics, pp. 47-51 (1965).	
	NPL13	Kona Corporation Catalog entitled, "Kona Bushing for Sprueless Molding," pp. 1-24 (June 2001).	
	NPL14	"Mold Hotrunner Solutions," Product illustration of a Guided Mechanism (date unknown).	
	NPL15	Press Release entitled "Mold-Masters Introduces the New Accu-Gate Virtually Eliminating Gate Wear," (December 2002).	
	NPL16	Redacted: Images and information from "Gunther Hot Runner Technology," taken from Gunther website (August 2003).	
	NPL17	PCT Search Report for PCT/CA03/01154, mailed December 3, 2004.	
	NPL18	PCT Search Report for WO 03/70446 (Application No. PCT/CA03/00244), mailed May 16, 2003.	

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